

# PUYALLUP – PUYALLUP CHINOOK

This stock was called Puyallup fall Chinook in the 1992 SASSI. Run timing designations have been dropped from most Puget Sound Chinook stock names because they have been inconsistently applied.

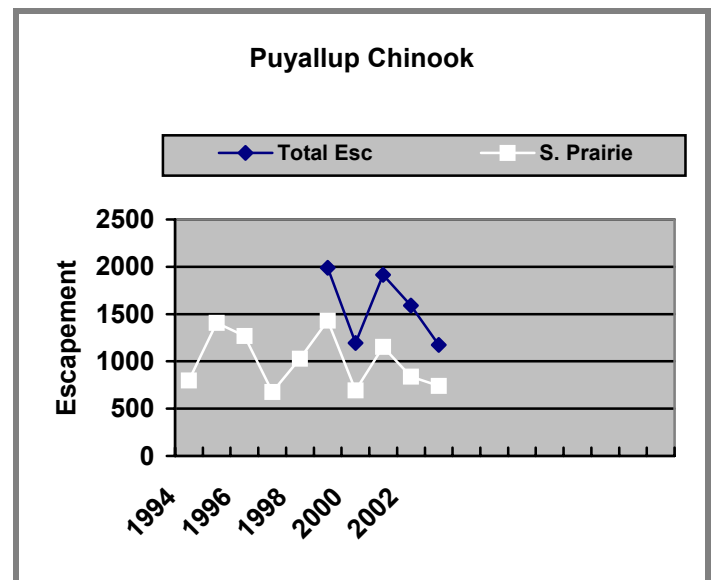
## STOCK STATUS

1992 STATUS	2002 STATUS
Unknown	Unknown

## STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: Poor (Total)  
Poor (S. Prairie)

YEAR	TOTAL ESCAPEMENT	SOUTH PRAIRIE ESCAPEMENT
1994		798
1995		1,408
1996		1,268
1997		677
1998		1,028
1999	1,988	1,430
2000	1,193	695
2001	1,915	1,154
2002	1,590	840
2003	1,173	740



Data are: 1) total escapement estimates based on a new escapement estimation methodology developed in 1999. This method expands cumulative redd counts from a variety of index reaches throughout the Puyallup River basin; 2) escapement estimates for the South Prairie Creek system based on redd counts. The 1999 through 2001 total escapement estimates are not comparable to earlier estimates. The South Prairie Creek estimates include escapements to Wilkeson Creek in years when flows are sufficient for Chinook to spawn there. In low-flow years, Chinook cannot spawn in Wilkeson Creek, and all spawning is in South Prairie Creek.

We do not yet know how to relate South Prairie Creek system estimates to Puyallup basin total escapement estimates, so we do not know how well the South Prairie Creek estimates reflect the status of the entire basin. Until there are adequate data to adjust prior escapement estimates and define a longer-term trend, stock status is rated **Unknown**.

## STOCK DEFINITION

Puyallup Chinook were identified as a stock based on their distinct spawning distribution.

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**SPAWNING DISTRIBUTION:** Spawning takes place in the mainstem Puyallup River, South Prairie Creek, Carbon River and various smaller tributaries.

**SPAWNING TIMING:** Spawning generally occurs from mid-September to early November.

**GENETIC ANALYSIS:** Allozyme analysis of 1992 and 1993 South Prairie Creek naturally-spawning Chinook showed that they are similar to Green River Chinook and their hatchery derivatives including Hood Canal, Puyallup, Deschutes, Skykomish and Issaquah hatchery Chinook (Marshall et al. 1995).

## STOCK ORIGIN

This is a stock of **mixed** origin with **composite** production. There were extensive releases of non-native hatchery Chinook stocks including stocks from Hood Canal, Deschutes, Minter Creek and Green River from 1973 to 1988.